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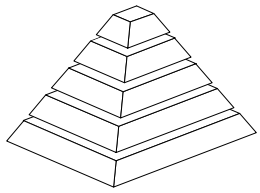

FIELD CHANGE ORDER — Service

Issued by : DMC Hamburg

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Product group : 742

green -> in preparation

742 X-ray Generator

No.	Date	Cat.	Title	
FCO74200002	Apr 2002	APR	Optimus RAD / RF release 3.x upgrade to release 3.5 - OPTIMUS RAD / RF	4512 980 59421
FCO74200003	Jun 2002	APP	Intermittent Error 3794 - Power Part	4512 980 59541
FCO74200004	Jun 2002	APP	Intermittent Error 3652 - Super 50 / 80 / 100 CP	4512 980 59531
FCO74200005	Aug 2002	APP	Cockpit fan modification - OPTIMUS C	4512 980 59561
FCO74200006	Jul 2002	APP	Transport wheel problems with generator cabinet 40E SCP 50/80/100, OMCP / MRC, OMCP / MRM, Optimus RAD 50/65/80, Optimus R/F 50/65/80, Optimus C 50/65/80	4512 980 59591
FCO74200007	Sep 2002	APR	Transport wheel problems with generator cabinet 40E SCP 50/80/100, OMCP / MRC, OMCP / MRM, Optimus RAD 50/65/80, Optimus R/F 50/65/80, Optimus C 50/65/80	4512 980 59601
FCO74200008	Aug 2002	SR	Tomo program selection not possible OPTIMUS 50 / 65 / 80	4512 980 59701
FCO74200009	Jan 2003	MA	EQC21 blow up during Pulsed Fluoroscopy Power Part OMCP	4512 980 59801
FCO74200010	Feb 2003	APP	Intermittent Error 3651 Super 50 / 80 / 100 CP	4512 980 59911
FCO74200011	Feb 2003	APP	Intermittent Error 3651 Power Part OMCP	4512 980 59921
FCO74200012	Feb 2004	APR	FPR kV (fluoroscopy programmed radiography) drop to 50kV during fluoro	4512 980 60411
FCO74200013	Feb 2004	APP	Blow-up of EQ C21 during pulsed fluoroscopy with grid switch - OMCP Power Part	4512 980 60641
FCO74200014	Feb 2004	SR	Blow-up of EQ C21 during pulsed fluoroscopy with grid switch - OMCP Power Part	4512 980 60651
FCO74200015	Feb 2004	SR	IGBT over-current supervision for OPTIMUS RAD/RF/C converters	4512 980 60661

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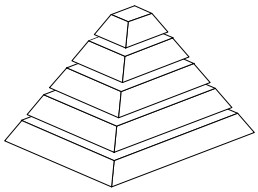

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Product group : 742

green -> in preparation

742 X-ray Generator

No.	Date	Cat.	Title
FCO74200016	Apr 2004	APR	IIntermittent error 3906 in combination with MRM rotor control 4512 980 60671
FCO74200017	May 2004	APP	OPTIMUS converter over-current supervision OPTIMUS RAD/RF/C 4512 980 60631
FCO74200018	Jan 2004	APP	Update FW 1.2 Velara CFD 4512 981 60891
FCO74200019	Mar 2004	SR	Low-speed rotor control power resistor exchange OPTIMUS RAD/RF/C 4512 980 61091
FCO74200020	Mar 2004	MA	Attachment of new labels on X-ray generator and X-ray control 4512 980 61041

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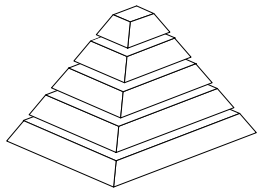

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Product group : 742

SM 40...SM 75P

No.	Date of issue	Cat.	Title
			Reference No.: SUPER M 40
N1	1974		mAs switch
N2	1975		Premature termination of exposure
N3	1975		New data for tube adjustment
N4	1975		No release of P/F/R
N5	1975		1 ms – Time counter module CM
N6	1975		Release of automatic circuit breaker DZ1
N7	1971		Amplimat 7 – Premature termination
N8	1975		Planning schedule for modular generators
N9	1975		Inadequate output of stator supply unit
N10	1975		Different density – Amplimat
N11			Not issued!
N12	1976		Amplimat 7 – Defects of thyristor PB 8/9 G7
N13			Not issued!
N14	1977		Shorting plug RA 3608 – 09
N15	Mar. 1978		Supervisory timer QB 12
N16	Jun. 1978		L.T. Monitor V11
N17	1981		not issued
			Reference No.: SM 40...SM 75P
N20	Nov. 1982		Oil leakage on H.T. generators Refers to: SM 40/SM 70 of serial Nos. up to and including 812071 and SM 70S of serial Nos. up to and including 802021
N21	Nov. 1982		Failure of fluoroscopic filament resistor DR 1 Refers to: SM 40...SM 75P

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No.	Date of issue	Cat.	Title
N22	Dec. 1982		Release of automatic mains circuit breaker Refers to SM 40...SM 75P from serial No. 79.... onwards
N23	Mar. 1983	RA	Radiographic voltage too low Refers to: SM 70 of all series
			Reference No.: SUPER M 70
N1	1974		mAs switch
N2	1975		Premature termination of exposure
N3	1975		New data for tube adjustment
N4	1975		No release
N5	1975		1 ms Timer counter module CM
N6	1975		Release of automatic circuit breaker DZ1
N7	1975.1		Amplimat 7 - Premature termination
N8	1975		Planning schedule for modular generators
N9	1975		Inadequate output of stator supply unit
N10	1975		Different density - Amplimat
N11			Not issued
N12	1976		Amplimat 7 - defects of thyristor PB 8/9 G7
N13	1977		Shorting plug
N14	Mar. 1978		Supervisory timer QB 12
N15	Jun. 1978		L.T. Monitor V11
			Q-Item - 111
001	August 1995	SR	Failure of the Fluoroscopy Unit due to the HT generator cover not being screwed on properly

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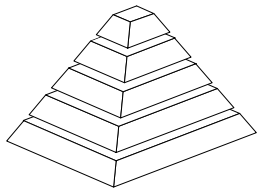

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Ref. No. : 742-Index

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Product group : 742

SUPER M 80/ 80 S/ 100

No.	Date of issue	Cat.	Title
			Reference No.: SUPER M 80
N1	1974		Pre-installation instructions for TDC2
N2	1974		Automatic kV control resistor
N3	1975		Failure of a mains phase
N4	1974		Exposure termination checkback
N5	1975		Failure of timers
N6	1975		Lack of interference
N7	1975		Gear defects on kV-adjusting motor
N8	1975		No release of P/F/R
N9	1975		1 ms-Time counter module CM
N10	1975		Oscillation of mAs- indication
N11	1975		Short circuit plug RA 13
N12	1975		Release of automatic circuit breaker DZ 1
N13	1975		Differences of external installation of generators
N14	1975		Amplimat 5 - Premature termination
N15	1975		Planning schedule
N16	1975		Defects of tubes (link in plug EZ 18)
N17	1975		Inadequate output of stator supply unit
N18	1975		Different density - Amplimat
N19	1975		Programming of tubes of series 01DT ff.
N20	1976		Amplimat 5 - defects of thyristor PB 17/18 G7
N21	Mar. 1978		Timer Q

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No.	Date of issue	Cat.	Title
N22	Jun. 1978		L.T. Monitor V11
N23	Mar. 1980		New H.T. generators for the generators SM/MM 80...150
N24	Dec. 1980		Release of an exposure before elapse of the tube-specific waiting time (e.g. 0.8 s)
N25	Jun. 1981		Replacement carbon roller carriage guides
			Reference No.: SUPER M 80 S
N1	Mar. 1980		New H.T. generators for the generators SM/MM 80...150
			Reference No.: SUPER M 100
N1	1974		Pre-installation instructions for TDC2
N2	1974		Automatic kV control resistor
N3	1975		Failure of a mains phase
N4	1974		Exposure termination checkback
N5	1975		Failure of timers
N6	1975		Lack of interference suppression
N7	1975		Gear defects on kV-adjusting motor
N8	1975		No release P/F/R
N9	1975		1 ms Timer counter module CM
N10	1975		Oscillation of mAs indication
N11	1975		Short circuit plug RA 13
N12	1975		Release of automatic circuit breaker DZ1
N13	1975		Differences of external installation of generators
N14	1975		Amplimat 5 - premature termination
N15			Not issued
N16	1975		Planning schedule
N17	1975		Tube defects (Link in plug EZ 18)
N18	1975		Inadequate output of stator supply unit
N19	1975		Different density - Amplimat
N20			not issued

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No.	Date of issue	Cat.	Title
N21	1975		Programming of tubes of series 01DT ff.
N22	1976		Amplimat 5 - defects of thyristor PB 17/18 G7
N23	Mar. 1978		Timer Q
N24	Jun. 1978		L.T. Monitor V11
N25	Mar. 1980		New H.T. generators for the generators SM/MM 80...150
N26	Dec. 1980		Release of an exposure before elapse of the tube-specific waiting time (e.g. 0.8 s)
N27	Jan. 1981		Tomographic times longer than 2 s
N28	Jun. 1981		Replacement carbon roller carriage guides **Reference No.: SM 80...MM 150**
N30	Nov. 1982		Oil leakage on H.T. generators Refers to: SM 80/ MM 80 of serial Nos. up to and including 800160 SM 100/ MM 85/ MM 100 of serial Nos. up to and incl. 790233
N31	Nov. 1982		Failure of fluoroscopic filament resistor DR1 refers to: SM 80...MM 150
N32	Feb. 1983		Unspecific Error Symptom in the kV Regulating Circuit refers to: SM 80...MM 150
			Q-Item - 112
001	August 1995	SR	See 00 111 001 Failure of the Fluoroscopy Unit due to the HT generator cover not being screwed on properly

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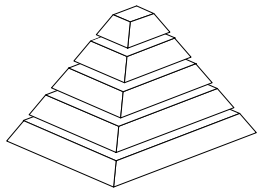

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Product group : 742

MAXIMUS M 80/ 85/100/ 150

No.	Date of issue	Cat.	Title
			Reference No.: MAXIMUS M 80
N1	1975		Inadequate output of stator supply
N2	1978		L.T. Monitor V11
N3	1980		New H.T. generators for the generators SM/MM 80...150
N4	1981		Exposure release not possible
			Reference No.: MAXIMUS M 85
N1	1980		New H.T. generators for the generators SM/MM 80...150
N2	1981		Exposure release not possible
			Reference No.: MAXIMUS M 100
N1	1974		Pre-installation instructions for TDC2
N2	1974		Automatic kV control resistor
N3	1975		Failure of a mains phase
N4	1974		MAXIMUS M 100, series 1, 2 + 99DE Checking the first time of load reduction
N5	1974		Exposure termination checkback
N6	1974		Rapid series technique with Amplimat
N7	1975		Lack of interference suppression
N8	1975		Gear defects on kV-adjusting motor
N9	1975		No release of P/F/R
N10	1975		Oscillation of mAs indication
N11	1975		1ms Time counter module CM
N12	1975		Release of automatic circuit breaker DZ1

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No.	Date of issue	Cat.	Title
N13	1975		Differences of external installation of generators
N14	1975		Amplimat 5 - early and late termination
N15			Not issued
N16	1975		Planning schedule
N17	1975		Inadequate output of stator supply unit
N18	1975		Different density - Amplimat
N19	**???**		
N20	1975		Programming of tubes of series 01DT ff.
N21	1976		Amplimat 5 - defects of thyristor PB 17/18 G7
N22	1978		L.T. Monitor V11
N23	1980		New H.T. generators for the generators SM/MM 80...150
N24	1981		Replacement carbon roller carriage guides
			Reference No.: MAXIMUS M 150
N1	1974		Pre-installation instructions for TDC 2
N2	1974		Increasing the cross section of the earth conductor
N3	1975		Failure of mains phase
N4	1974		Checking the first time of load reduction MAXIMUS M 150, series 1, 2 + 99DE
N5	1974		Exposure termination checkback
N6	1974		Rapid series technique with Amplimat
N7	1975		Lack of interference suppression
N8	1975		Gear defects on kV-adjusting motor
N9	1975		No release of P/F/R
N10	1975		Oscillation of mAs indication
N11	1975		1ms time counter module CM
N12	1975		Release of automatic circuit breaker DZ1
N13	1975		Differences of external installation of generators
N14	1975		Amplimat 5 - early and late termination

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No.	Date of issue	Cat.	Title
N15			Not issued
N16	1975		Planning schedule
N17	1975		Inadequate output of stator supply unit
N18	1975		Different density - Amplimat
N19	1975		Programming of tubes
N20	1976		Amplimat 5 - Defects of thyristors
N21	Jun. 1978		L.T. Monitor V11
N22	Apr. 1980		New H.T. generators for the generators SM/MM 80...150
N23	Jun. 1981		Replacement carbon roller carriage guides
			Q-Item - 113
001	August 1995	SR	See 00 111 001 Failure of the Fluoroscopy Unit due to the HT generator cover not being screwed on properly

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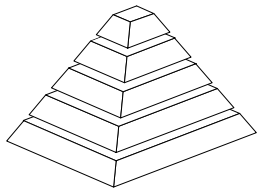

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Ref. No. : 00 114 00

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Product group : 742

MTM 100

No.	Date of issue	Cat.	Title
N1	1980		Missing density range in free AMPLIMAT technique with reduced signal amplification 9874 226 ...2
N2	1981		Thermal overload in the kV control circuit MTM 100 for factory Nos. up to and including 810129 9874 226 ...2
N3	1981		Exposure release not possible 9874 226 ...2
			Q-Item - 114
001	August1995	SR	See 00 111 001 Failure of the Fluoroscopy Unit due to the HT generator cover not being screwed on properly

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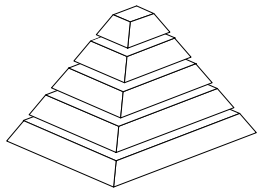

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Ref. No. : 742-Index

Product group : 742

SUPER 120 CD

No.	Date of issue	Cat.	Title
			Reference No.: 00 129 ...
001	May 1993	SR	Different problems regarding exposure time alarm, fuses EQ F3-F5, mains alarm, jumper on ES1 and communication to service PC.

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Product group : 742

MEDIO CP / CP-H

No.	Date of issue	Cat.	Title
			Reference No.: MEDIO 30/50 CP
N1	Jun. 1985	RA	**Interferences when using XTV5** Refers to: All MEDIO CP generators with photomultiplier option PEI 9803 506 80002 on TV chain XTV5
N2	Jun. 1985	RA	**Faulty release of Fluoroscopy with error numbers E A93, E A95, E A96** Refers to: MEDIO CP generators Seria l Nos. 844101/11/18/19/21/25/30/31/43/45/46/47/50/55/844160/61/76/79/81/82/85/92/95/97/844201/03/05/20/24/36/38/43854107/14/22 To be destributed in: A, AUS, CDN, D, DK, F, HK, I, N, NL, ROK, SUDAN, USA, ZA
N3	Jul. 1985	RA	**220 V supply for SRO rotor control** Refers to: MEDIO 50 CP generators Serial Nos. 844101-08/10-15/16/18 To be distributed in: A, D, DK, F, I, NL
N4	Jul. 1985	AP	**5-amp automatic circuit breaker for SRO rotor control** Refers to: MEDIO 50 CP generators with SRO Serial Nos. 844102/14-16/18/19/22/30/32/34-37/39-43/45-50/844155-57/59-62/70/75/76/80/84-90/93/95/96/98/99/844201/03/12/13/15/16/19-22/24/26/31/42/43/854103/05/06/08/10/17/22/36/38 To be distributed in: A, AUS, CDN, D, DK, E, ET, F, GB, HK, I, J, MAL, N, NL, RCH, S, SA, SF, SUDAN, USA, ZA
N5	Aug. 1985	RA	**Premature termination of exposure in the case of tube interferences with E538 – "Softstart" on PCB Z108 and modification of the measuring divider** Subject: MEDIO CP generators Serial Nos. 844101-09/11-17/19-32/39/40 To be distributed in: A, D, DK, ET, F, I, MAL, NL, SA, SF, SUDAN, ZA

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No.	Date of issue	Cat.	Title
N6	Aug. 1985	RA	**VDR for protection from possible overvoltages on the measuring divider** Subject: MEDIO CP generators Serial Nos. 844110/27/41-45/55 To be distributed in: A, D, F, I, MAL, NL, OMAN, SUDAN
N7	Sep. 1985	RA	**Uncoupling of desk due to critical current interface on PCB EZ131 AUX CONTROL** Subject: MEDIO CP generators Serial Nos. 844101-17/19-37/39-49/55-67/69/70/75/ 85/91-99 844200-03/05-13/19-26/32/37-43 854101-03/05-08/12-15/17-20/22-28/33-36/ 38-42/44/49 854150/51/57/58/62/64/65/66/68/71-75/ 77-80/82/83/90-98 854202/04-11/14/17/18/20/21/23-28 To be distributed in: A, AUS, CDN, D, DK, E, EAT, ET, F, GABUN, HK, I, M, MAL, N, NL, OMAN, RCH, SA, SF, SGP, SUDAN, SYR, THA, TN, UAE, USA, VRC, ZA
N8	Nov. 1985	AP	**Static charges of the housings of oil switches magnets lead to flashover** Subject: H.T. Changeover switch 4512 103 80902 MEDIO CP generators Serial Nos. 844101/10/19/49/97 844213/24 854103/14/15/35/39/41/57/58/62/71/72/ 77/78/83/94/96 854204/08/20/26/27/33/38/39/46/55/56/64/68/95 To be distributed in: A, CDN, D, ET, F, GB, I, NL, SYR, USA, VRC, ZA
N9	Nov. 1985	AP	New protective cap for exam./aux. unit connection group Refers to: MEDIO 30/50 CP generators Serial Nos. 844101/18/24/33/39-42/44-48/56/60/75/92 844206-11/22/24 854134/57 854206/07/24/25/29/31/45/47 To be distributed in: AUS, CDN, EAT, F, I, M, MAL, NL, OMAN, SGP, SUDAN, TN, USA

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No.	Date of issue	Cat.	Title
N10	Dec. 1985	RA	**No exposure - E567 or E564** Refers to: MEDIO 30/50 CP generators Serial Nos. 854274/89-95 854300/03-05/09/17-20/22/23/25/26/87 To be distributed in: A, CDN, D, F, HK, I, NL, USA, YU
N11	Jan. 1986	AP	**Short times in Amplimat operation resulting from wrong elimination of interference voltages in Option Rack 4512 103 74202** Refers to: MEDIO 30/50 CP generators Serial Nos. 844102/07/11-18 To be distributed in: A, D, DK, F, I, NL, ZA
N12			**Not issued**
N13	Feb. 1986	RA	**Radiating of electromagnetic fields through the converter** Refers to: MEDIO 30/50 CP generators Serial Nos. 844101-08/10-17/19-23/25/27-32/34-37/39-44/46-49 844155-58/60-67/69/70/75-85/91-93/97-99 844200-04/12/13//19-26/32/37-43 854101-03/06-08/12-15/17/19/20/24/26-28/33-35/ 39-42/44/49/50 854151/57/58/62/64/66/68/71/73-75/77-80/83/90-98 854202/04-10/14/18/20/24-28/31/32/34/36/38/39/45-47 854253-56/68/70-77/84-87/91-94 854300-06/09/14/17-20/22-24/26-33/35-44/46-48 854350-55/57/58/60-64/67/68/84/87/91/94/44/ 13/19-28/32 864102-08/10/13-19/22/24/25/27-37/42/43/49 864150-52/57/59/60/62/63/68/69/79-81/84-87/89-91 To be distributed in: A, AUS, CDN, CH, D, DDR, DK, E, EC, ET, F, GB, GR, I, IL, MAL, N, NL, OMAN, P, RCH, S, SA, SF, SGP, SU, SYR, TN, TR, UAE, USA, ZA
N14	Oct. 1987	ST	**Sporadic errors in preparation, radiography or fluoroscopy** Refers to: All MEDIO 30/50 CP generators To be distributed in: A, AUS, B, BR, BRN, CDN, CH, CS, D, DK, DZ, E, EAT, EC, ET, F, FASO, GABUN, GB, GR, HK, HKJ, I, IL, J, KWT, LAR, M, MA, MAL, MEX, N, NL, OMAN, P, PL, RC, RCB, RCH, RFC, RL, ROK, S, SA, SF, SGP, SN, SUDAN, SYR, THA, TN, TR, UAE, USA, VRC, YU, YV, ZA
N15	Oct. 1987	ST	**Service Reference Card for MEDIO CP generators** Refers to: All MEDIO 30/50 CP generators To be distributed in: A, AUS, B, BR, BRN, CDN, CH, CS, D, DK, DZ, E, EAT, EC, ET, F, FASO, GABUN, GB, GR, HK, HKJ, I, IL, J, KWT, LAR, M, MA, MAL, MEX, N, NL, OMAN, P, PL, RC, RCB, RCH, RFC, RL, ROK, S, SA, SF, SGP, SN, SUDAN, SYR, THA, TN, TR, UAE, USA, VRC, YU, YV, ZA

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No.	Date of issue	Cat.	Title
N16	Nov. 1988	ST	**Functional wiring diagrams for MEDIO CP generators** Refers to: All MEDIO 30/50 CP generators of generator Nos. up to and including 884245 To be distributed in: A, ADN, AUS, B, BG, BRN, CDN, CH, CI, CS, D, DDR, DK, DZ, E, EAT, EC, ET, F, FASO, GABUN, GR, HK, I, IL, IND, J, JORD, KWT, LAR, M, MA, MAL, MEX, N, NA, NL, OMAN, P, PA, PL, RCB, RCH, RFC, ROC, S, SA, SF, SGP, SN, SUDAN, SYR, THA, TN, TR, UAE, UK, USA, VRC, YU, YV, ZA
N17	Jul. 1989	ST	**E613 due to failure of automatic filament circuit breaker ENF 3** Refers to: MEDIO 30/50 CP generators up to and including generator No. 894029 To be distributed in: (see remarks in the Service Information)
N18	Jan. 1990	ST	**E634 during settling time of fluoroscopy** Refers to: MEDIO 30/50 CP generators up to and including generator No. 894046
N19	Feb. 1991	AP	**Interruption of data transmission at the desk including loss of program or error messages E141/E143/E713** Refers to: Auxiliary unit control II MEDIO 30/50 CP generators To be distributed: internationally by VST 85
N20	Feb. 1991	ST	**Cross current caused by relay K1 on ZA170/Z108** Refers to: MEDIO 30/50 CP generators
N21	Jul. 1991	AP	**Crossfire caused by improper activation of ignition-pulse distribution** Concerns: All MEDIO 30/50 CP generators with SRO rotor control of a serial No. < 91xxxx with printed-circuit board IGNITION STAGES RC (CP) 4512 107 7300x → 4512 107 73006 Location: MEDIO CP → YA 147

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MEDIO CP/ CP-H - STANDARD 50 CP-H

No.	Date of issue	Cat.	Title
			Reference No.: MEDIO CP - MEDIO CP-H - STANDART 50 CP-H
001	Jan. 1993	SR	Survey of printed-circuit boards for MEDIO CP generators
002	Jun. 1993	SR	All generators MEDIO CP-H with release 7.x plus high-tension generator with two workstations.
003	Jun. 1993	SR	All generators MEDIO CP-H with release 7.x plus high-tension generator with two workstations.
004	Jun. 1993	SR	Sporadic cut off of the desk. **Replaced by 004 Mar. 1994**
004	Mar. 1994	SR	Sporadic cut off of the desk.
005	May 1994	SR	Faults in the last DSI exposure stored
006	Oct. 1994	SR	Sporadic failure of the desk
007	Oct. 1994	SR	Sporadic error E335 during preparation or error E514 during fluoroscopy request
008	Oct. 1994 *(limited distributed)*	AP	Defective data cables (4512 980 52731) **Replaced by 008 Nov. 1994**
008	Nov. 1994 *(limited distributed)*	AP	Defective data cables (4512 980 52731)
009	Jul. 1995	SR	Sporadic error E633 on Display
010	Jul. 1995	SR	not published
011	Jan. 1996	SR	Welding/burning of contacts ENF1
011_{SSR}	Apr. 1996 *(SSR-Germany only)*	SR	Welding/burning of contacts ENF1
012	Oct. 1996	AP	MEDIO CP-H Control Module with APRT, APR-screen thickness problem 4512 980 54481
013	Jul. 1997	SR	RO 17 50 replacement for RO 30 50 (4512 980 54991) **for Europe only**
014	Jul. 1997	SR	MEDIO CP-H welded relay contacts of ENK1/2 after crossfire 4512 980 55541
015	Aug. 1997	SR	Crossfire during high power range exposure (4512 980 55621)
016	Dec. 2000	SR	Sporadic errors E141, E143, E613, E633, E713, E733 4512 980 58971

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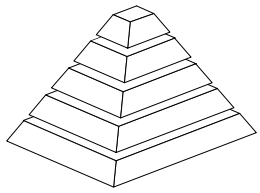

FIELD CHANGE ORDER — Service

Issued by : PMS Hamburg

Ref. No. : 742-Index

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Product group : 742

in preparation — ***SUPER CP***

No.	Date of issue	Cat.	Title
			Reference No.: X-RAYLOCALIZING DO
N1	Dec. 1985	RA	Release of automatic circuit breaker ENF1 Refers to: All SUPER 50 DO generators
N2	Jun. 1986	RA	No "ready state" - yet no error display; operation not possible Refers to: All SUPER 50 DO generators
N3	Nov. 1986	AP	Retrofitting the rotor control with a 220 V contact changer Refers to: SUPER 50 DO generators up to and including PEI equivalent code No. 4512 103 75291 and serial No. 863330
N4	Dec. 1986	ST	Release of the automatic circuit breaker ENF1 (See also Service Information N1.1-85.0/12) Refers to: All SUPER 50 DO generators
N5	Febr. 1987	ST	Cable adapter for handswitch DO Refers to: All SUPER 50 DO generators
N6	Febr. 1988	ST	CM/CP (multiple) test monitor used as a service tool (4512 152 53511) Refers to: SUPER 50 DO generators with basis firmware release 3
N7	Mar. 1988	AP	Crossfire, release of ENF1 and possibly of the pre-fuse in PREP, EXP and FLUOR Refers to: All SUPER 50/80 CP generators of serial Nos up to and including 883001, especially of serial Nos 873xx
N8			not distributed
N9	Sep. 1990	AP	Changing the frequency relay Refers to: All SUPER 50 DO generators
N10	Jun. 1991	ST	Screening of ventilator M1 and thermal switch S4 of the converter group change notification 90/0597 Concerns: All SUPER 50 DO generators
N11	Jun. 1991	ST	Apparent malfunction in the filament circuit or in the DDC computer Concerns: All SUPER 50 DO generators

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No.	Date of issue	Cat.	Title
N12	Jul. 1991	AP	Crossfire caused by improper activation of ignition-pulse distribution Applies to: All basic SUPER 50/80/100 CP generators of a serial No. < 91xxxx with printed-circuit board IGNITION STAGES RC (CP) 4512 107 7300x → 4512 107 73006 Location: SCP → EH109
N13	Apr. 1992	SR	Sporadic error 3328 and/or release of EN F2 Applies to: All SUPER 50 DO / 50 LD generators
N14	OCT. 1992	SR	Error 3272 during preparation in the fast exposure mode Applies to: ALL SUPER CP generators with PCB EZ126 < 4512 108 00663 and fast exposure
N15	Oct. 1992	SR	Over exposure with 10" image intensifierand cassette <24 cm Applies to: ALL SUPER CP generators with PCB EZ119 < 4512 107 74208

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in preparation

SUPER CP

No.	Date of issue	Cat.	Title
			Reference No.: SUPER 50/80/100 CP
N1	Jun. 1984	AP	High tension occasionally too low Refers to: SCP 50 generators serial Nos. 843002 - 843018
N2			- not issued
N3	Jun. 1984	AP	Premature termination of exposure Refers to: SCP generators serial Nos. 843001 - 843018
N4	Aug. 1984	AP	Breakdown of the high tension during the starting phase Refers to: SCP generators serial Nos. 843001 - 843018
N5	Aug. 1984	AP	Fluoroscopy occasionally blocked Refers to: SCP generators serial Nos. 843001 - 843027
N6	Aug. 1984	AP	Crossfire in the filament circuit converter Refers to: SCP generators serial Nos. 843001 - 843027
N7	Aug. 1984	AP	Changing the SCP firmware to Release 1.2 Refers to: SUPER CP generators of serial Nos. 843001 - 842027
N8	Aug. 1984	AP	Exchanging the half disks on the generator-end high-tension cable plugs Refers to: SCP generators serial numbers 843001 - 843...
N9	Jun. 1985	RA	Interferences when using XTV5 - with photomultiplier option PEI 9803 506 80002 on TV chain XTV5 Refers to: All SCP generators
N10	Dec. 1985	AP	Tube failures at critical working stations Refers to: All SCP generators
N11	Nov. 1985	AP	Static charges of the housings of oil switch magnets lead to flashover Refers to: H.T. changeover switch 4512 103 80902 SCP generators
N12	Dec. 1985	RA	Release of automatic circuit breaker ENF1 Refers to: All SUPER 50/80 CP generators
N13	Jun. 1986	RA	No "ready state" - yet no error display; operation not possible Refers to: All SUPER 50/80 CP generators
N14	Nov. 1986	AP	Retrofitting the rotor control with a 220 V contact changer Refers to: SUPER 50/80 CP generators up to and including PEI-equivalent code No. 4512 103 75291 and serial No. 863346
N15	Dec. 1986	ST	Release of the automatic circuit breaker ENF1 Refers to: All SUPER 50/80 CP generators

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No.	Date of issue	Cat.	Title
N16	Mar. 1987	ST	Faulty area dose display due to interferences of the diaphragm adapters Refers to: SUPER 50/80 CP generators Serial Nos.: 843062/64/70/80 853086/3112/97/3299 863051/52/3107/08/09/10/66/69 863245/46/62/93/99
N17	Jun. 1987	ST	Service reference card for SUPER CP generators Refers to: All SUPER 50/80 CP generators
N18	Jul. 1987	ST	Difficulties in tube adaptation Refers to: All SUPER 50/80 CP generators
N19	Febr. 1988	ST	CM/CP (multiple) test monitor used as a service tool (4512 152 53511) Refers to: SUPER 50/80 CP generators with basis firmware rel. 3
N20	Mar. 1988	AP	Crossfire, release of ENF1 and possibly of the pre-fuse in PREP, EXP and FLUOR Refers to: All SUPER 50/80 CP generators of serial Nos. up to and including 883001, especially of serial Nos. 873xxx
N21	Apr. 1988	ST	Excessive high-tension ripple in the low-power range of the converter Refers to: SUPER 50/80 CP generators up to and including serial No. 873321
N22	Sep. 1988	ST	Waiting time display on SCP with DVI Refers to: All SUPER 50/80/100 CP generators with DVI
N23	Jun. 1989	AP	No area dose display in fluoroscopy with firmware release 5.1 and 5.2 - only for USA - Refers to: SUPER 80 CP generators - serial No.: 883308
N24	Jul. 1989	ST	Overvoltage protection in the H.T. measuring circuit inccorrectly connected Refers to: SUPER CP generators according to enclosure
N25	Aug. 1989	AP	Wrong discharging resistor EV R2 Refers to: SUPER CP generators according to enclosure
N26	Jul. 1989	ST	New PCB EH148 FILAMENT CONVERTER 4512 107 73622 not re-compatible Refers to: SUPER CP generators with serial Nos. < 883082
N27	Jul. 1991	AP	Changing the frequency relay Refers to: All SUPER 50/80/100 CP generators up to and including series number 903016
N28	May 1990	ST	Operation of tube assemblies SRM 06 12 - 9806 204 60002 and SRM 03 10 - 9806 204 51002 (however, not 9806 204 51002) Refers to: SUPER CP generators with SRM 06 12 and SRM 03 10

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in preparation ***SUPER CP***

No.	Date of issue	Cat.	Title
N29	Nov. 1990	AP	Error codes 3671/3672/3673 and/or waiting time Refers to: All SUPER 50/80/100 CP generators with release 6.1/6.2
N30	Mar. 1991	ST	Alignment fast exposure 9803 507 51002 Refers to: SUPER 80/100 CP generators with fast exposure 9803 507 51002, technical No. 4512 103 71272 with PCB 4512 107 54303 in connection with tube current regulator EZ126 4512 108 00663
N31	Jun. 1991	ST	Screening of ventilator M1 and thermal switch S4 of the converter group change notification 90/0597 Refers to: All SUPER 50/80/100 CP generators
N32	Jun. 1991	ST	Apparent malfunction in the filament circuit or in the DDC computer Refers to: All SUPER 50/80/100 CP generators
N33	Jul. 1991	AP	Exchange of firmware release 5, L3 against release 5, L4 Applies to: All SUPER 50/80/100 CP generators with firmware release 5/level 3
N34	Jul. 1991	AP	Error code 3794 = Error cause: RAM chip D9 on SDL4 board 4512 177 6984. Applies to: All SUPER 50/80/100 CP generators with cine option
N35	Jul. 1991	AP	Crossfire caused by improper activation of ignition-pulse distribution Applies to: All basic SUPER 50/80/100 CP generators of a serial No. < 91xxxx with printed-circuit board IGNITION STAGES RC (CP) 4512 107 7300x → 4512 107 73006 Location: SCP → EH109
N36	Apr. 1992	SR	Sporadic error 3328 and/or release of EN F2 Applies to: All SUPER 50/80/100 CP generators
N37	May 1992	SR	Termination of preparation caused by apparent filament errors 3268, 3271, 3272 and 3273 Applies to: All SUPER 50/80/100 CP, all SUPER 50 CP LD, delivered with PCB FILAMENT CONTROL EH136 and EH141 4512 108 03901 (from serial No. 91 3... to 92 3200) and all SUPER CP generators equipped with this PCB as a spare part

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No.	Date of issue	Cat.	Title
N38	Aug. 1992	AP	Wiring modification in the control of converter contactor EVK1 (d.c. voltage supply) because of possible errors 3510, 3512, 3940, 3972, 3978 and release of ENF1 Applies to: SCP 50/80/1903016 - 923114 SCP 50 LD 903901 - 903930 911801 - 921803
N39	Oct. 1992	SR	Error 3272 during preparation in the fast exposure mode
N40	Oct. 1992	SR	Overexposure with 10" image intensifier and cassettes <24 cm
N41	Oct. 1992	AP	VCO-Test geändert / Neuer Aufkleber
			Q-Item - 132
001	Dec. 1992	AP	Cover plate for protection against alive parts during service work
002	Dec. 1992	SR	Error 3272 during preparation in the fast exposure mode
003	Dec. 1992	SR	Overexposure with 10" image intensifier and cassettes <24 cm
004	Nov. 1992	AP	Change of VCO test procedure / new stickers
005	Jan. 1993	SR	Image Quality improvement/waiting times
006	Jan. 1993	AP	5 V power pack EZ 202 manufacturing fault
007	Apr. 1993	SR	Errors during cine runs caused by PCB "Converter test circuit"
008	Apr. 1993	SR	kV peaks caused by interferences on lead FRCRVO
009	Jun. 1993	AP	Converter modification
010	Nov. 1993	AP	Tube load indication improvement for INTEGRIS V3000/V4000 & C2000
011	Jan. 1994	SR	Errors 3928, 3264, 3484, 3485, 3520...3541, 3589, 3901, 3963 and 3794 caused by de-energized K7 relay of PCB EZ112
012	Mar. 1994	SR	Elimination of sporadic DDC watchdog errors (1522/1548/3963/3933).
013	Feb. 1995	SR	Undefined intermittent error codes like 3264, 3136 or CMOS data lost. (95.0) **Replaced by 013 Mar. 1995**
013	Mar.1995	SR	Undefined intermittent error codes like 3264, 3136 or CMOS data lost. (95.1)
014	Jan. 1996	SR	Converter test circuit faults 4512 980 53151 Corresponds to Power Part FCO 00 134 026

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in preparation

SUPER CP

No.	Date of issue	Cat.	Title
015	Jun 1996	SR	General information about DSI-APR and FPR programming 4512 980 54291
017	Aug1996	SR	Tube load indication improvement for INTEGRIS V3000/4000 and C2000 with SRC tube 4512 980 54311
018	Nov 1996	SR	ENF1 circuit breaker problems 4512 980 54371
019	Oct 1996	SR	SUPER CP control module with APRT, APR-screen thickness problem 4512 980 54491
020	Apr 1999	SR	Density variation in photo timer technique 4512 980 57821
021	Jun 1999	SR	Various problems related to GCF (pulsed fluoroscopy) 4512 980 57981
~~022~~	~~Mar 2001~~	~~SR~~	~~Intermittened earth leakage current breaker trip-out 4512 980 58981~~
~~022~~	~~Oct 2001~~	~~SR~~	~~Intermittened earth leakage current breaker trip-out 4512 980 58981~~
022	Dec 2001	SR	Intermittened earth leakage current breaker trip-out 4512 980 58981
023	Apr 2001	SR	Frequency capacitor EQC21 short circuit 4512 980 56961
024	Apr 2001	SR	Wiring change EVK1 - EVK2 4512 980 59051
025	Aug 2001	APP	Undefined error codes likes 3264, 3136, CMOS data lost 4512 980 59131
026	Feb 2002	APP	SCP converter power block manufacturing problem 4512 980 59321
027	Mar 2002	SR	Error 3912 with GCF 4512 980 59411

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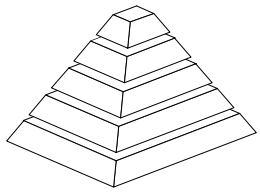

FIELD CHANGE ORDER — Service

Issued by : PMS DMC Hamburg

Ref. No. : 742-Index

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Product group : 742

in preparation

OPTIMUS 50 /65 / 80 RAD / RF

No.	Date of issue	Cat.	Title	
			Q-Item - 135	
001	Aug. 1996	AP	Upgrade of OPTIMUS generators to release 2.2 - ***only USA***	
002	Oct. 1996	AP	Upgrade of OPTIMUS generators to release 2.2 - distributed directly	
003	Apr. 1997	AP	Upgrade of OPTIMUS generators to release 2.2 - distributed directly	
004	May 1998	SR	Error combination 00XI + 00M3	4512 980 56401
005	June 1998	AP	Upgrade of release 2.2 OPTIMUS generators to release 2.3	4512 980 56511
~~006~~	~~Sep 1998~~	~~AP~~	~~Upgrade of release 3.x OPTIMUS generators to release 3.3~~	~~4512 980 56521~~
006	Feb 2000	AP	Upgrade of release 3.x OPTIMUS generators to release 3.3	4512 980 56521
007	Nov 1998	SR	ENK 2 contact problems	4512 980 57461
008	June 1999	AP	Replacement of Roco HS flat version	4512 980 57911
009	May 1999	MA	Electric shock during service activities in the generator cabinet	4512 980 57791
010	Apr 1999	AP	Einschaltstromdämpfung ROCO ***for Germany only***	4512 980 57841
011	Sep 1999	AP	PCB EZ 102 Low Voltage supply exchange	4512 980 58081
~~012~~	~~Nov 1999~~	~~AP~~	~~Replacement Comet xray tube~~	~~4512 980 58171~~
012	Apr 2000	AP	X-Star tube and Rotor Control replacement	4512 980 58171
013	15.09.1999	SR	Power cable contact crimp problem	4512 980 58181
~~014~~	~~Dec 1999~~	~~AP~~	~~FW Update kV_Control Rel 3.2 OPTIMUS RAD, resp. Rel 1.2 OPTIMUS R/F~~	~~4512 980 58371~~
014	Mar 2000	AP	FW Update kV_Control Rel 3.2 OPTIMUS RAD, resp. Rel 1.2 OPTIMUS R/F	4512 980 58371

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No.	Date of issue	Cat.	Title	
015	Mar 2000	SR	Error combination 02WK + 02HG + 02HH + 00XO	4512 980 58281
016	Jul 2001	SR	Error 00 TH during tube adaptation	4512 980 59161

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